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(54) Solid electrolyte fuel cell.

(57) A solid oxide fuel cell comprises an insulating layer (1a) formed on a base tube (1) or a base tube (1) itself having electrically insulating properties, and a generating layer formed by successively laminating a fuel electrode (2), a solid electrolyte (3) and an air electrode (5) on the insulating layer (1a), in which fuel cell a chemically stable reaction-preventive film is preferably formed between the insulating layer (1c) or the insulating base tube (1) and the fuel layer, and which fuel cell is preferably heat treated. Also, a solid oxide fuel cell may comprise a ceramic base (21), a fuel electrode material (22) and an electrolyte material (23) thermal-sprayed and sintered on the ceramic base member (21), and an air electrode material (24) thermal-sprayed on the fuel electrode material (22) and the electrolyte material (23).

FIG. 1

